PATENT ABSTRACTS OF JAPAN

(11) Publication number: **57174694** A

(43) Date of publication of application: 27.10.82

(51) Int. CI F28D 19/04
// F24F 7/08

(21) Application number: **56058619** (71)

(22) Date of filing: 20.04.81

(71) Applicant: TOSHIBA CORP

(72) Inventor: KANEUCHI KAZUO

SAKATA KANJI

(54) HEAT EXCHANGER

(57) Abstract:

PURPOSE: To solve the problems such as deformation, deterioration and wear on the surface of a heat exchanger, by covering the surface of the heat exchanger with a wear-resisting, net-like surface protecting member.

CONSTITUTION: Air of C°C and C% is passed through a right half of a heat exchanger 1 in a direction shown by arrows 7, 7' in the drawing, while air of A°C and A% is passed through a left half of the heat exchanger 1 in a direction shown by 6, 6'. The heat exchanger 1 causes total heat exchange while it is turned by a motor 2 in a direction shown by an arrow 8. In such an arrangement, surface protecting members 9, made of a wear-resisting material and formed with such net-like honeycomb-shaped pores as may not cause resistance to the air flow 7, 7' and 6, 6', are attached to both sides 10, 11 of the heat exchanger 1. Further, wear-resisting seal members 5 for sealing the heat exchanger 1 and a case 4 are fixed to the case 4 in the manner that they are held in contact with the surface of the protecting members 9, so that the protecting members 9 are kept in sliding contact with the seal members 5 in place of the heat exchanger 1 itself. Therefore, it is enabled to

protect the heat exchanger 1.

COPYRIGHT: (C)1982,JPO&Japio

